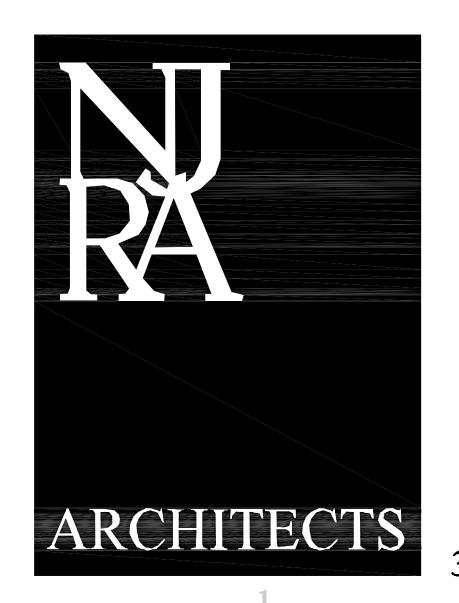
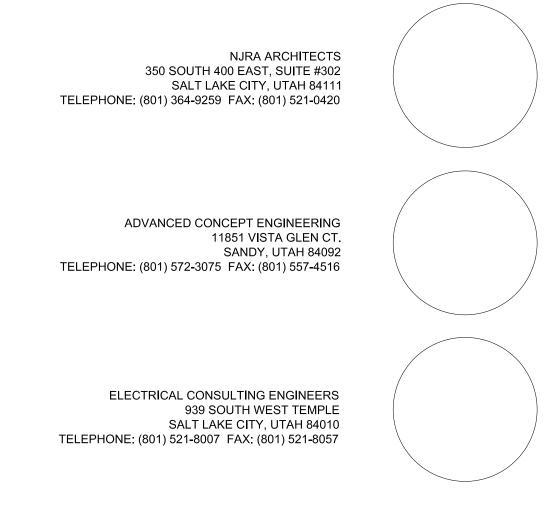




BDO Satellite Facility Phase III Ogden, Utah







GENERAL	
G-001 Cover Sheet & Inc	dex of Drawings
Hazardous Materials	
n/a	
Civil	
n/a	
Landscape	
n/a	
Structural	
n/a	
Architectural	
A-001 General Information	on
A-101 Floor Plan	Dlan
A-102 Reflected Ceiling A-201 Sections & Elevati	
	IOTIS
A-501 Details A-601 Schedules	
Interiors	
n/a	
Equipment n/a	
Fire Protection	
n/a	
Plumbing	
P-101 Plumbing Floor Pl	an
P-201 Plumbing Schedul	
Mechanical	
M-101 Mechanical Floor	Plan
M-201 Mechanical Piping	
M-301 Mechanical Scheo	-
Electrical	
E-001 General Notes & S	Schedules
	& Power Single Line & Panels
E-201 Electrical Floor Pla	
E-901 Lighting Floor Plan	
Telecommunications	
n/a	
Resource	

	communications
n/a	
eso n/a	ource
, С.	
	APPLICABLE CODES Year Year
	nternational Building Code 2003 National Electrical Code 2005 nternational Mechanical Code 2003 Uniform Code for
li li li	nternational Plumbing Code nternational Fire Code nternational Fire Code nternational Energy ASHRAE 90.1 Online Tode to the code to the c
Α.	Occupancy and Group
	Change in Use: Yes No _X _ Mixed Occupancy: Yes No _X Special Use and Occupancy (e.g. High Rise, Covered Mall):
B.	Seismic Design Category: EXISTING Design Wind Speed: EXISTINGmph
C.	Type of Construction (circle one):
	$\frac{\mathbf{I}}{A}$ $\frac{\mathbf{I}}{B}$ $\frac{\mathbf{II}}{A}$ $\frac{\mathbf{II}}{B}$ $\frac{\mathbf{III}}{A}$ $\frac{\mathbf{III}}{B}$ $\frac{\mathbf{IV}}{HT}$ $\frac{\mathbf{V}}{A}$ $\frac{\mathbf{V}}{B}$
D.	Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours); North: 0 South: 0 East: 0 West: 0
E.	Mixed Occupancies: Nonseparated Uses:B
F:	Sprinklers:
	Required: Provided:X Type of Sprinkler System: WET PIPE
G:	Number of Stories:1 Building Height:30'
H:	Actual Area per Floor (square feet):28,090
1:	Tabular Area: 40,590
J:	Area Modifications:
	a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $I_f = 100 \left[\frac{F}{P} - 0.25\right] \frac{W}{30}$
	$40,590 = 9,000 + 4,590 + 27,000$ $51 = 100 [518\%_{680} - 0.25] 30/30$
	b) Sum of the Ratio Calculations for Mixed Occupancies:
	$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1 \qquad \frac{28,090}{42750} = 0.66$
	Allowable Area $\frac{28,090}{42,750} = 0.66$
	c) Total Allowable Area for:
	1) One Story: _40,590 2) Two Story: A _a (2)
	3) Three Story: A _a (2)
	d) Unlimited Area Building: Yes No _X Code Section:
K.	Fire Resistance Rating Requirements for Building Elements (hours).
EI	lement Hours Assembly Listing Element Hours Assembly Listing
	xterior Bearing Walls 0 Floors - Ceiling Floors terior Bearing Walls 0 Roofs - Ceiling Roofs 0
St	xterior Non-Bearing Walls 0 Exterior Doors and Windows 0 tructural Frame Shaft Enclosures -
	artitions - Permanent 0 Fire Walls 0 re Barriers 0 Fire Partitions 0
	Smoke Partitions
L.	Design Occupant Load: 561
	Exit Width Required: 84 Exit Width Provided: 108
M.	Minimum Number of Required Plumbing Facilities:
	a) Water Closets - Required (m) 7 (f) 7 Provided (m) 8 (f) 8 b) Lavatories - Required (m) 4 (f) 4 Provided (m) 8 (f) 8
	c) Bath Tubs or Showers:0
	d) Drinking Fountains: 6 Service Sinks: 1

2) Additional Code Information shall be provided at the discretion of the Building

Official for Complex Buildings. Including, but not limited to:

a) High Rise Requirements.

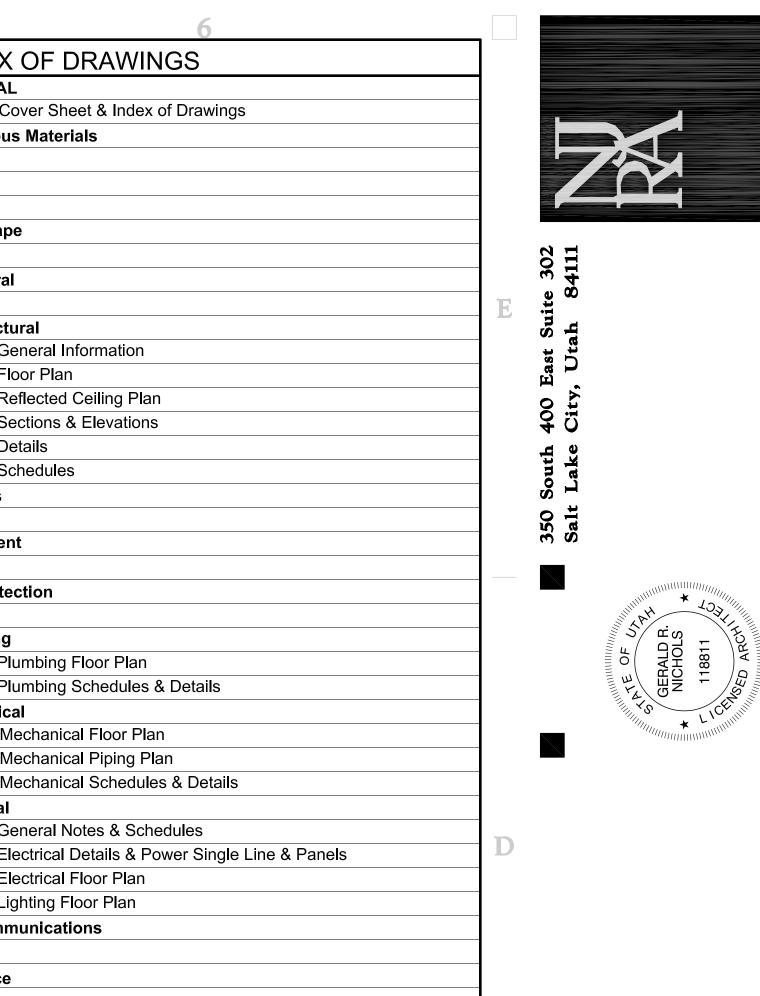
c) Performance Based Criteria.

f) Exterior and Interior Accessibility Route.

g) Fire Stopping, Including Tested Design Number.

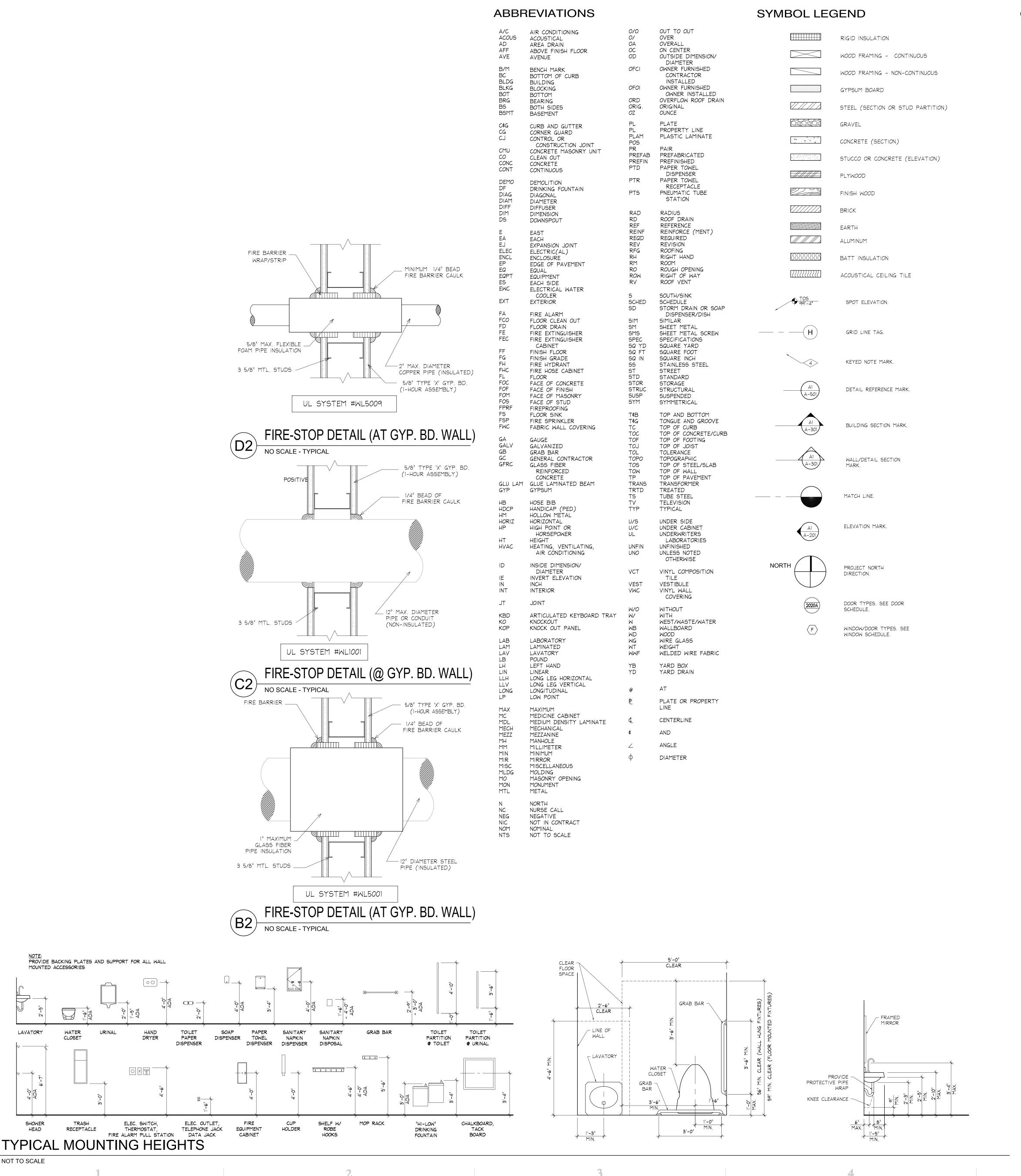
 d) Means or Egress Analysis. e) Fire Assembly Locator Sheet.

b) Atriums.



Project #: 05707.00

Cover Sheet & Drawings

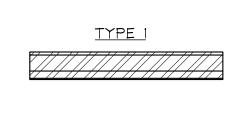


GENERAL NOTES

- MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF MECHANICAL OR ELECTRICAL CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEERS' DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- ALL WORK SHALL COMPLY WITH THE CURRENT ADA ACCESSIBILITY GUIDELINES (AMERICANS WITH DISABILITIES ACT).
- CODES GOVERNING THIS WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: 1997 UNIFORM BUILDING CODE, 1997 NFPA 101, APPLICABLE OSHA REGULATIONS, 1994 NFC, 1994 NFPA 241 STANDARDS FOR SAFEGUARDING CONSTRUCTION, ALTERATIONS, AND DEMOLITION OPERATIONS, AND REQUIREMENTS OF OTHER GOVERNING OFFICIALS. REQUIREMENTS OF CODES AND REGULATIONS SHALL BE CONSIDERED AS MINIMUM. WHERE THE CONTRACT DOCUMENTS EXCEED (WITHOUT VIOLATING) CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES

PRIOR TO COMMENCEMENT OF WORK.

- CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL BUILDING PROCEDURES. SYSTEM SHUTDOWNS OF HVAC, PLUMBING, ELECTRICAL AND NOISY CONSTRUCTION INCLUDING ROTO HAMMER, SAW CUTTING, CONCRETE ANCHORS, ETC. SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT.
- 6. ALL DIMENSIONS ARE SHOWN TO FACE OF FINISH OF NEW CONSTRUCTION AND FACE OF FINISH OF EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.
- ALL DRAWINGS, THOUGH NOTED TO SCALE ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR SHALL NOT SCALE DRAWINGS.
- WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- 9. ALL PENETRATIONS INTO SOUND OR FIRE RATED PARTITIONS, FLOORS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. REFER TO UBC 1997 SEC 709.6. PENETRATIONS FOR REQUIREMENTS FOR OPENINGS IN FIRE RATED WALLS. FOR OPENINGS LESS THAN 16 SQUARE INCHES, THE SPACE BETWEEN THE WALL AND ALLOWED PENETRATIONS MUST BE SEALED TO PREVENT THE MOVEMENT OF HOT FLAME OR GASES. ELECTRICAL DEVICES, RECESSED CABINETS, ETC. SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY. SEE PENETRATION DETAILS.
- 10. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND ICBO REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED
- ALL TRASH SHALL BE REMOVED DAILY. BUILDING MATERIALS MAY NOT BE STORED IN THE CORRIDORS AT ANY TIME. BLOCKAGE OF ANY REQUIRED EXIT IS PROHIBITED.
- THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF WATER AND DRAIN INSTALLATIONS AND OTHER REQUIRED SERVICES WITH EQUIPMENT MANUFACTURERS.
- ABBREVIATIONS THROUGHOUT THE PLAN ARE THOSE IN COMMON USE. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION.
- INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 8 OF THE UNIFORM BUILDING CONTRACTOR SHALL REFER TO THE PROJECT MANUAL
- FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES. INSTALL METAL CORNER BEADS AT ALL EXPOSED 16. WALLBOARD EDGES. INSTALL CASING BEADS WHEREVER
- WALLBOARD, PLASTER, ETC ABUTS A DISSIMILAR FINISH MATERIAL. ALL DOOR SIZES SHOWN ON DOOR SYMBOLS ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS, ETC. SHOULD BE CONSIDERED. ALL DOORS AND FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSERS, STOPS AND HARDWARE.
- ALL WOOD TRIMS, SPACER, FILLER, ETC. THROUGHOUT 17. JOB SHALL BE FIRE RETARDANT PRESSURE-TREATED, AS PER 1997 U.B.C. CONTRACTOR SHALL LOCATE BACKING PLATES BEHIND ALL WALL MOUNTED EQUIPMENT CASEWORK, WALL MOUNTED DOOR STOPS AND ACCESSORIES TO ENSURE POSITIVE ATTACHMENT TO THE STRUCTURE. SEE RELEVANT DETAILS.
- ELEVATIONS ARE WITH RESPECT TO FINISH FLOOR 18. ELEVATION. VERIFY FINISH FLOOR HEIGHT



EXISTING PRE-FABRICATED METAL BUILDING W/ NEW %" GYPSUM BOARD OVER 3%" METAL STUD FRAMING.

TYPE 3

5/8" GYP. BOARD (TYPE "X" WHERE REQUIRED) OVER 3 %" OR 6" METAL STUD FRAMING.

ADD 5/8" GYP. BOARD OVER EXISTING 3%" METAL STUD FRAMING.

EXISTING WALL ONE-HOUR FIRE

ISSUE JUNE 6 2005 REVIEW SET JUNE 22 2005 CONSTRUCTION DOCUMENTS

> Project #: 05707.00 General Information Sheet



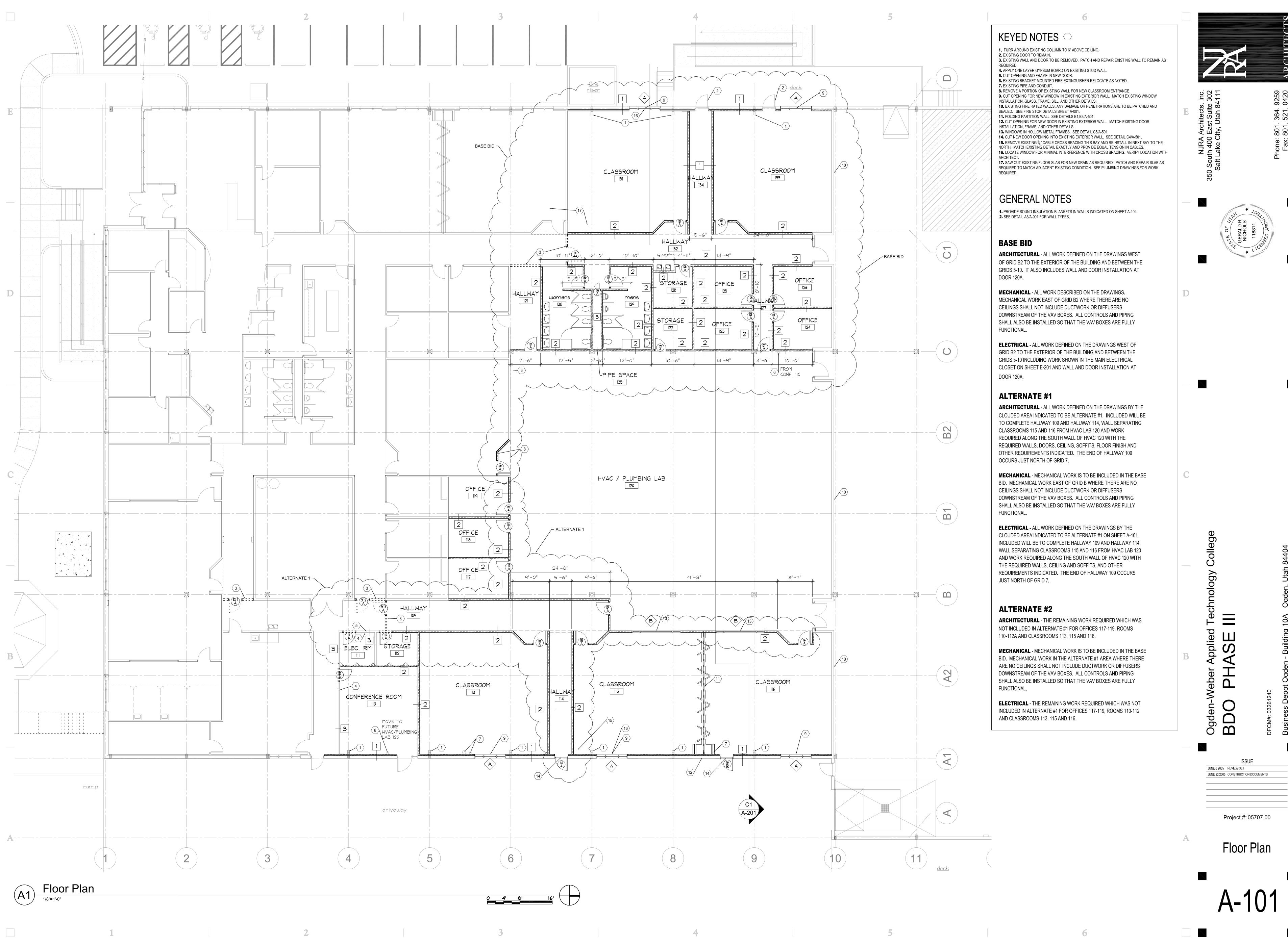
GENERAL WALL TYPES

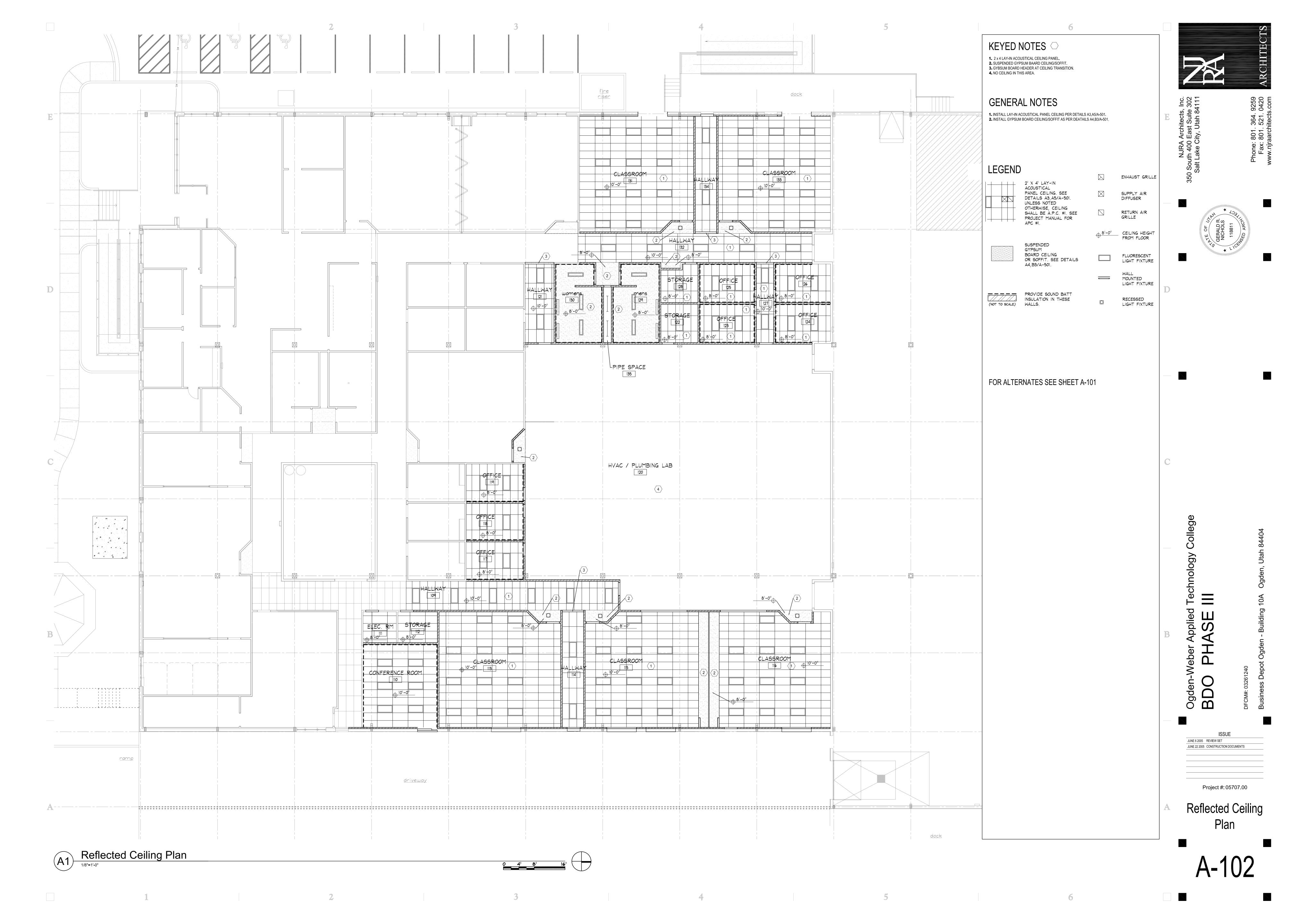
FUTURE WALL

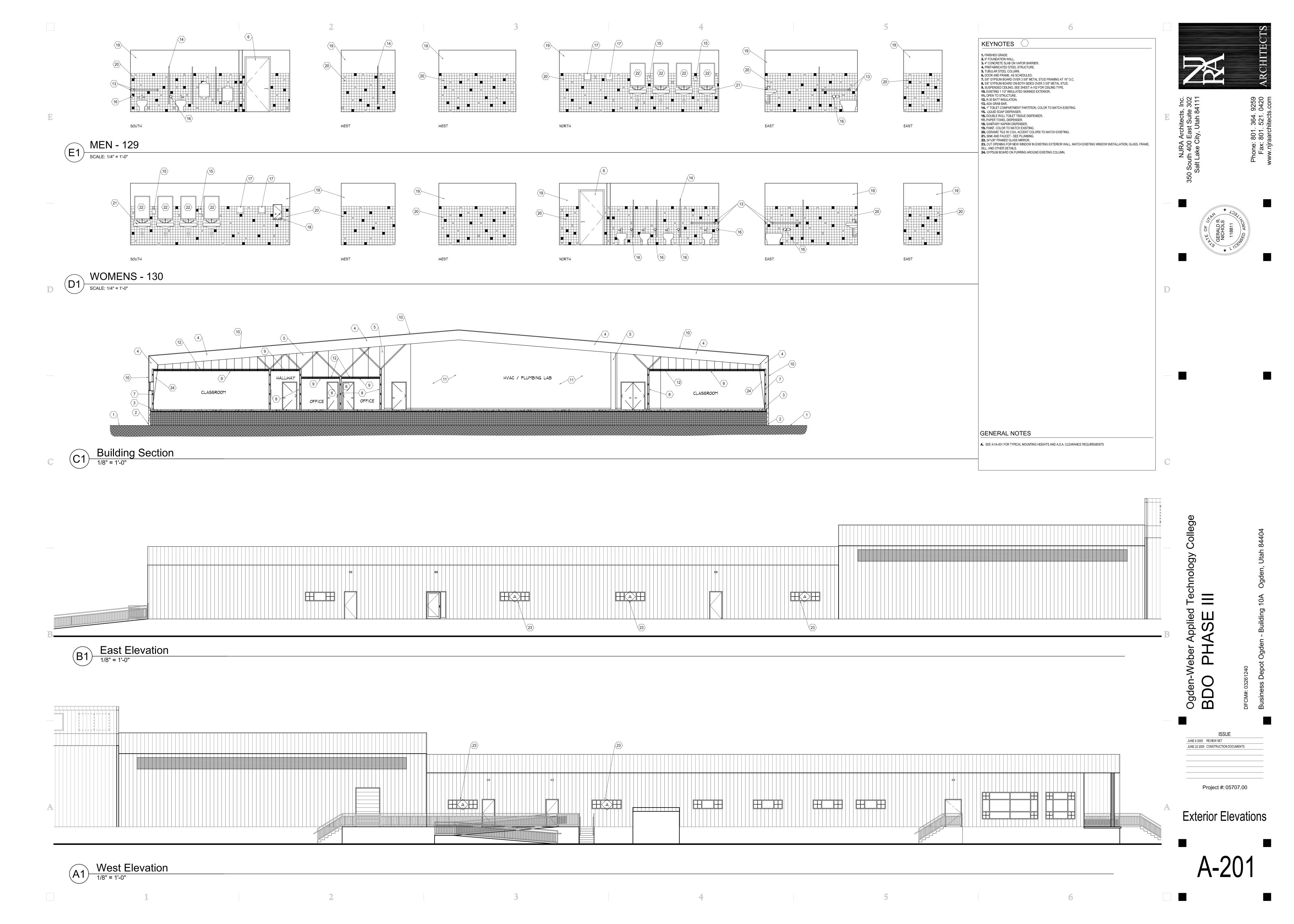
RESISTIVE WALL.

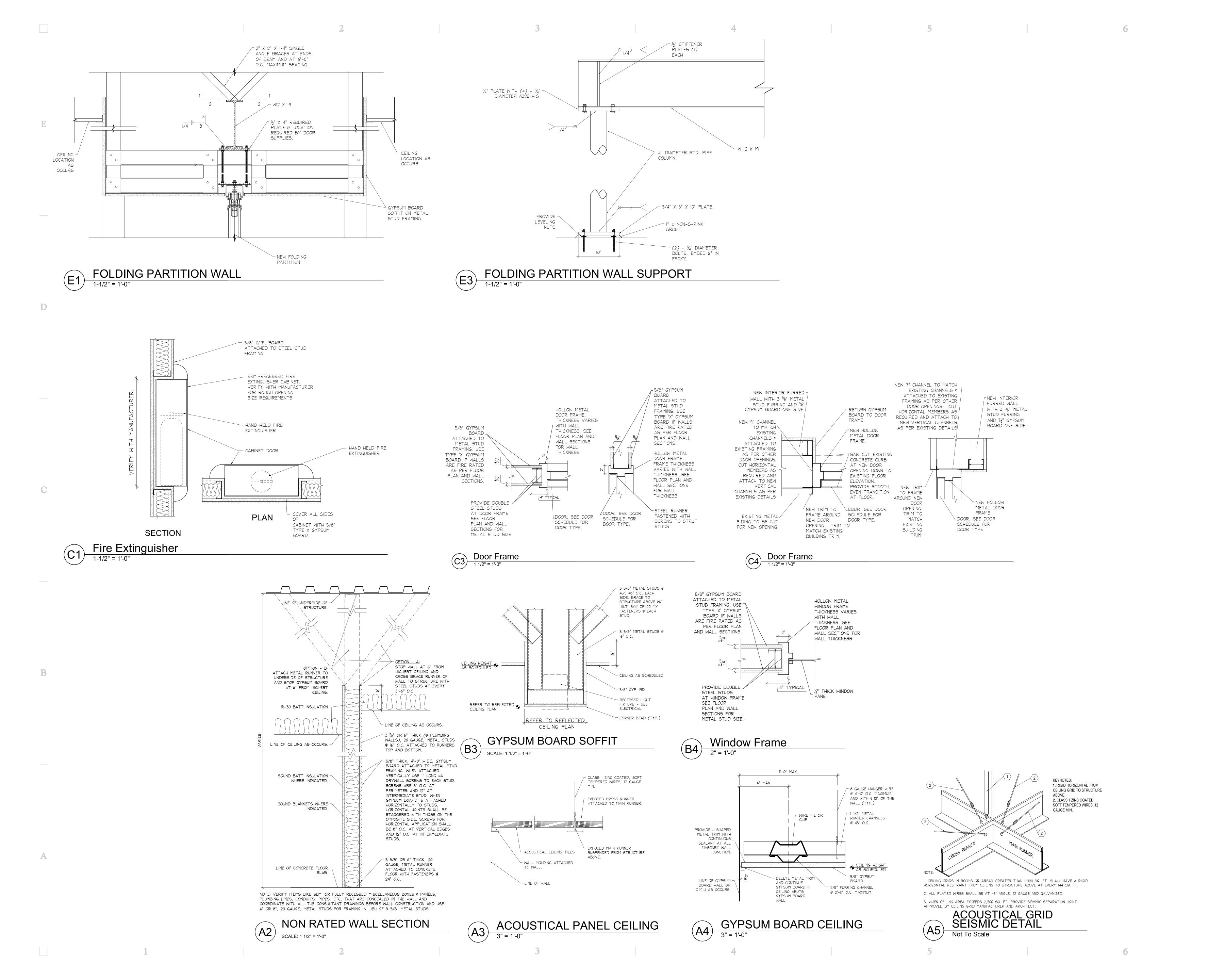
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1nc. 302 302 1111 **TY** 1111 1420 **ARCHITECTS** com

NJRA Architects, Inc. 350 South 400 East Suite 302 Salt Lake City, Utah 84111 Phone: 801. 364. 9259

GERALD R. APHILLING STATE OF CAMINITAL OF CA

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Applied Technology (IASE III

FCM#: 03261240

ISSUE

JUNE 6 2005 REVIEW SET

JUNE 22 2005 CONSTRUCTION DOCUMENTS

Project #: 05707.00

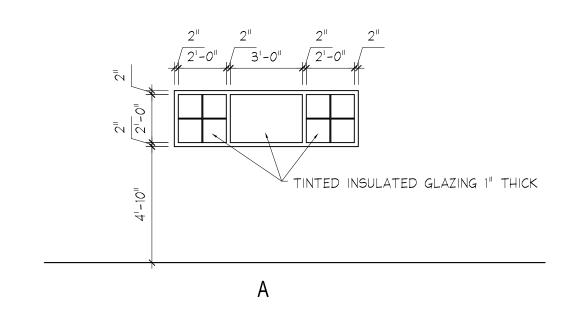
Details

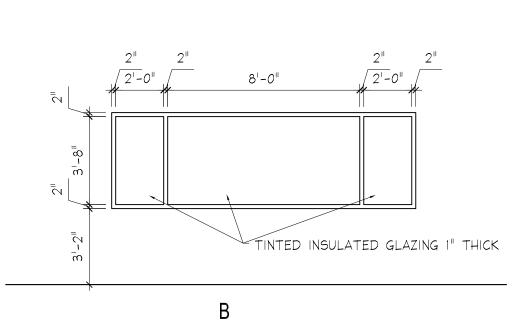
A-501

									2),		3
				OOG	R SCH	IEDU	LE					
		DOOR				FRAME						
DOOR NUMBER	DOOR	DOOR ELEVATION B1/A-601	DOOR	FRAME ELEVATION A1/A-601	FRAME	JAMB	DETAILS H P	THRESHOLD	DOOR	FIRE RATING (IN MINUTES)	HARDWARE GROUP	REMARKS
109A 110A	3'-6" x 7'-0" 3'-0" x 7'-0"	EXISTING B	HOLLOW METAL HOLLOW METAL	EXISTING 1	HOLLOW METAL HOLLOW METAL	EXISTING C3/A-501	EXISTING C3/A-501	THREOHOLD	109A 110A		5	REUSE EXISTING DOOR, FRAME, AND HARDWARE (EX 4A) IN THIS LOCATION.
111A	3'-0" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		111A		2	
112A	3'-0" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		112A		2	
113A 114A	3'-0" x 7'-0" 3'-0" x 7'-0"	B A	HOLLOW METAL	1	HOLLOW METAL HOLLOW METAL	C3/A-501 C4/A-501	C3/A-501 C4/A-501	YES	113A 114A		3 8	
115A	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501	120	115A		3	
116A	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		116A		3	
116B	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C4/A-501	C4/A-501	YES	116B		9	
117A 118A	3'-0" x 7'-0"	B B	HOLLOW METAL	1 1	HOLLOW METAL	C3/A-501 C3/A-501	C3/A-501 C3/A-501		117A		1	
119A	3'-0" x 7'-0" 3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL HOLLOW METAL	C3/A-501	C3/A-501		118A 119A		1	
120A	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		120A		3	
121A	3'-0" x 7'-0"	EXISTING	HOLLOW METAL	EXISTING	HOLLOW METAL	EXISTING	EXISTING		121A		6	REUSE EXISTING DOOR, FRAME, AND HARDWARE (EX 2A) IN THIS LOCATION.
122A	3'-0" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		122A		2	
123A	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		123A		1	
124A 125A	3'-0" x 7'-0" 3'-0" x 7'-0"	B B	HOLLOW METAL	1	HOLLOW METAL HOLLOW METAL	C3/A-501 C3/A-501	C3/A-501 C3/A-501		124A 125A		1	
126A	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		126A		1	
127A	3'-0" x 7'-0"	EXISTING	HOLLOW METAL	EXISTING	HOLLOW METAL	EXISTING	EXISTING		127A		7	REUSE EXISTING DOOR, FRAME, AND HARDWARE (EX 1A) IN THIS LOCATION.
128A	3'-0" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		128A		2	
129A	3'-0" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		129A		4	
130A	3'-0" x 7'-0" 3'-0" x 7'-0"	B A	HOLLOW METAL	1 1	HOLLOW METAL HOLLOW METAL	C3/A-501 C3/A-501	C3/A-501 C3/A-501		130A 131A		3	
	3'-0" x 7'-0"	В	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		133A		3	
135A	1'-6" x 7'-0"	A	HOLLOW METAL	1	HOLLOW METAL	C3/A-501	C3/A-501		135A		2	
	3'-0" x 7'-0"	EXISTING	HOLLOW METAL	1	HOLLOW METAL	EXISTING	EXISTING		EX 1A			
	3'-0" x 7'-0"	EXISTING	HOLLOW METAL	EXISTING	HOLLOW METAL	EXISTING	EXISTING		EX 2A			
l	3'-0" x 7'-0" 3'-6" x 7'-0"	EXISTING EXISTING	HOLLOW METAL	EXISTING EXISTING	HOLLOW METAL HOLLOW METAL	EXISTING EXISTING	EXISTING EXISTING		EX 3A EX 4A			
EA 4A	3-0 X / -0	EXISTING	HOLLOW METAL	EXISTING	HOLLOW WETAL	EXISTING	EXISTING		EA 4A			
				1								
				-								
				<u> </u>								
RE	MARKS											

ROOM NUMBER	ROOM NAME	INTERIOR			WAL	L BASE			WALL	VALL FINISH				
S S	(AS APPEARS ON FLOOR PLAN)	ELEVATION	FLOOR FINISH	NORTH	EAST	SOUTH	WEST	NORTH	EAST	SOUTH	WEST REMARKS			
110	CONFERENCE ROOM	-	F1	B1	B1	B1	B1	W1	W1	W1	W1	,		
111	ELECTRICAL	-	F2	B1	B1	B1	B1	W1	W1	W1	W1			
112	STORAGE	-	F2	B1	B1	B1	B1	W1	W1	W1	W1			
113	CLASSROOM	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
114	HALLWAY	-	F1	B1	B1	B1	B1	W1	W1	W1	-			
115	CLASSROOM	-	F6	-	-	-	-	-	W1	W1	W1			
116	CLASSROOM	-	F6	-	-	-	-	W1	W1	-	W1			
117	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
118	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
119	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
120	FUTURE HVAC / PLUMBING	-	-	- D4	-	-	-	10/4	W1	W1	W1			
121	HALLWAY	-	F1	B1	B1	B1	-	W1	W1	W1	-			
122	STORAGE	-	F2	B1	B1	B1	B1	W1	W1	W1	W1			
123	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
124	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
125	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
126	OFFICE	-	F1	B1	B1	B1	B1	W1	W1	W1	W1			
127	HALLWAY	-	F1	B1	B1	- D4	B1	W1	W1	W1	- NAM			
128	STORAGE	- - -	F2	B1	B1	B1	B1	W1	W1	W1	W1			
129	MEN ROOM	E1/A-201	F6	B2	B2	B2	B2	W1, W2	W1, W2	W1, W2	W1, W2			
130	WOMEN ROOM	D1/A-201	F6 F1	B2	B2 B1	B2 B1	B2	W1, W2	W1, W2	W1, W2	W1, W2			
131	CLASSROOM	-		B1			B1	W1	W1	W1	W1			
132	HALLWAY	-	F1 F1	B1 B1	B1 B1	B1 B1	B1 B1	W1 W1	W1 W1	W1 W1	W1			
133 134	CLASSROOM HALLWAY	-	F1	БІ	В1	B1	B1	W1	VVI	W1	W1			
134	HALLVVAT	-	FI	-	БІ	DI	БІ	VVI	-	VVI	I VV I			
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KE	1. NOT USED.													

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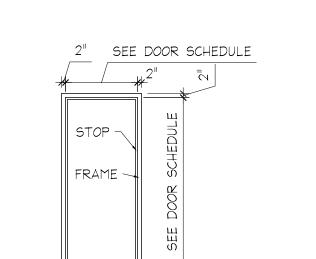
NOTE: USE CLEAR GLAZING ${1\over 4}$ " THICK FOR ALL VISION PANELS U.N.O.







		FINISH LEG	END			
LEGEND	DESCRIPTION	MANUFACTURER	STYLE	MODEL#	COLOR	REMARKS
F1- FLOOR FINISH	VINYL COMPOSITION TILE	MANNINGTON COMMERCIAL	BASICS		TIBURON	1, MATCH EXISTING
F2- FLOOR FINISH	VINYL COMPOSITION TILE	MANNINGTON COMMERCIAL			415 - ECRU MULTIFLEC	FIELD, MATCH EXISTING
F3- FLOOR FINISH	VINYL COMPOSITION TILE	MANNINGTON COMMERCIAL			239 - BROWN EARTH	ACCENT, MATCH EXISTING
F4- FLOOR FINISH	VINYL COMPOSITION TILE	MANNINGTON COMMERCIAL			295 - DEEP FERN	ACCENT, MATCH EXISTING
F5- FLOOR FINISH	VINYL COMPOSITION TILE	MANNINGTON COMMERCIAL			101 - NIGHT BLACK	ACCENT, MATCH EXISTING
F6- FLOOR FINISH	SEALED CONCRETE					
F7- FLOOR FINISH	CERAMIC TILE					
B1- WALL BASE	RUBBER BASE - 4"	FLEXCO			WF - 039	1, MATCH EXISTING
B2- WALL BASE	CERAMIC TILE					
W1- WALL FINISH	PAINT	PRATT & LAMBERT			2314 SEED PEARL	MATCH EXISTING
W1- WALL FINISH	CERAMIC TILE WAINSCOT					
REMARKS 1. PROVIDE STRAIGHT BA	SE IN CARPETED AREAS					



HOLLOW METAL DOOR FRAME

A-601

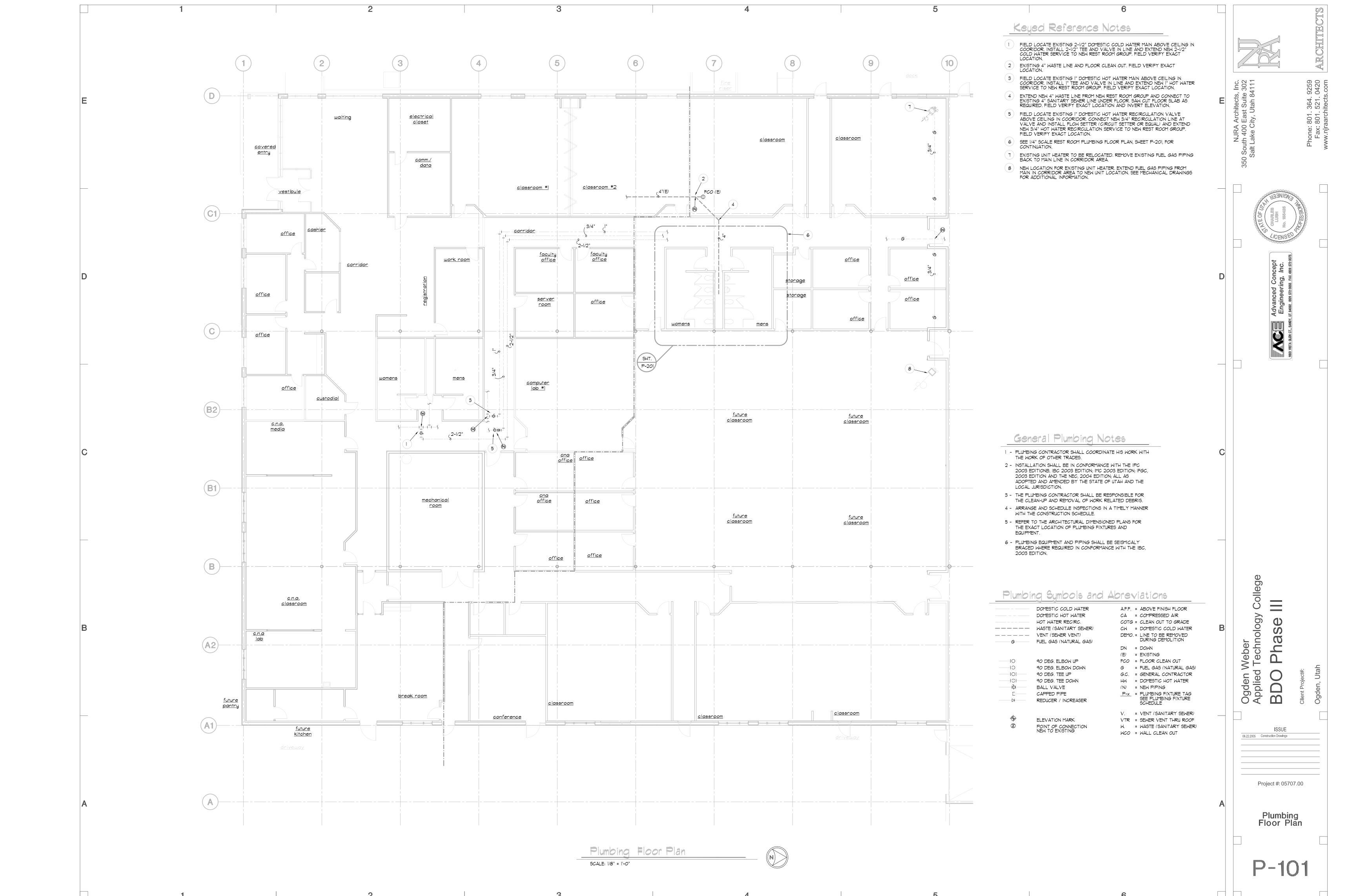
JUNE 6 2005 REVIEW SET

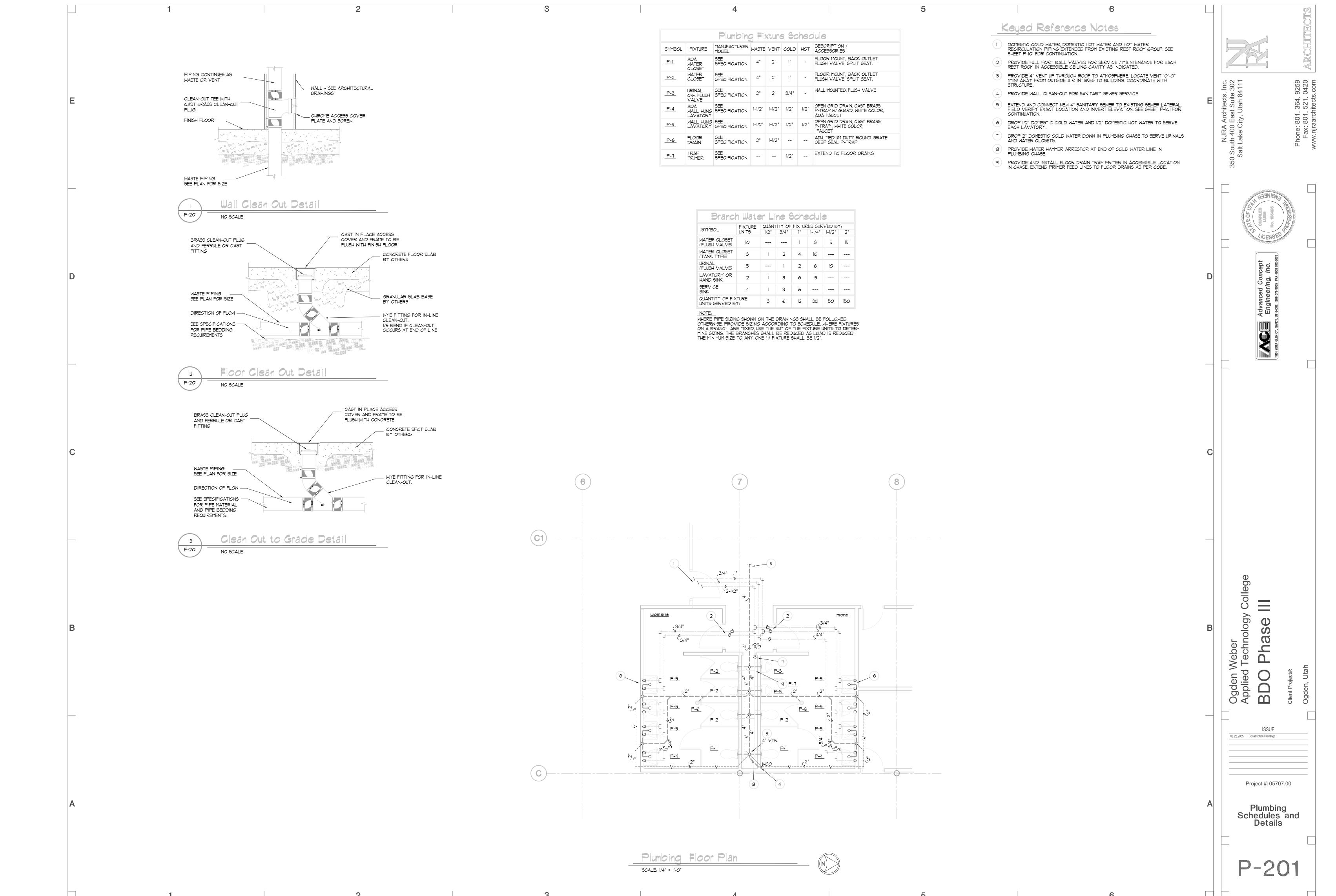
JUNE 22 2005 CONSTRUCTION DOCUMENTS

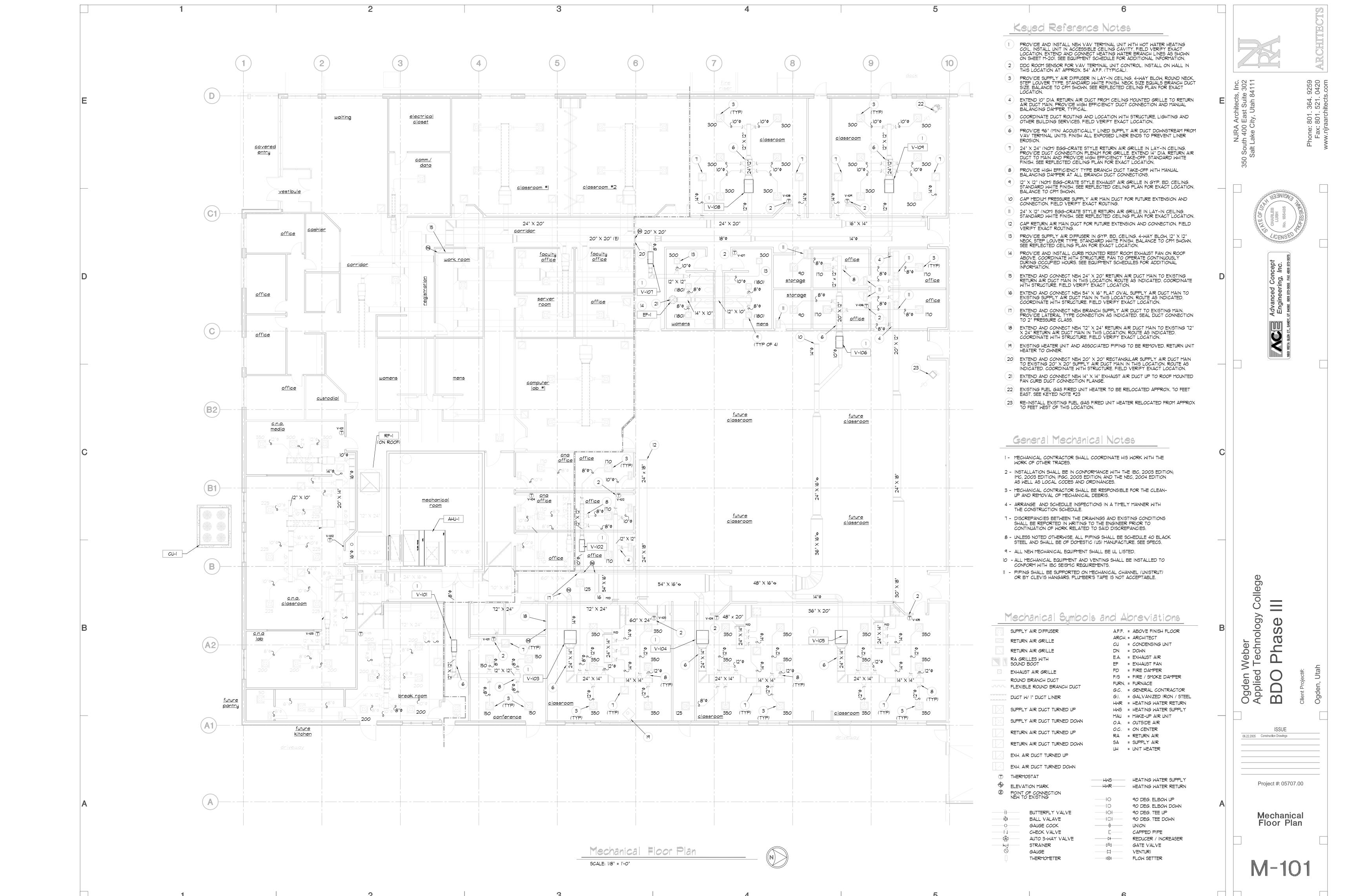
Project #: 05707.00

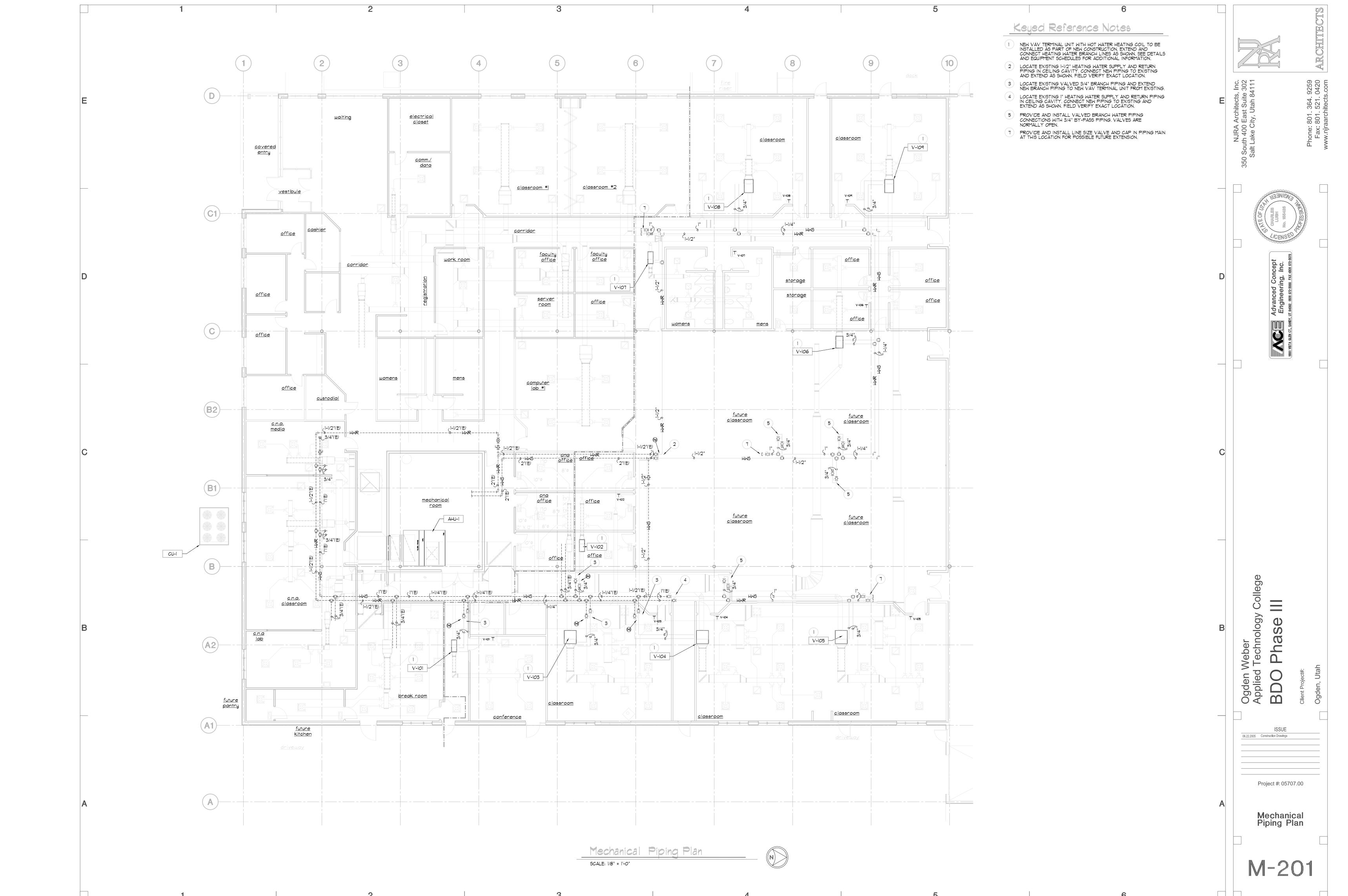
Schedules

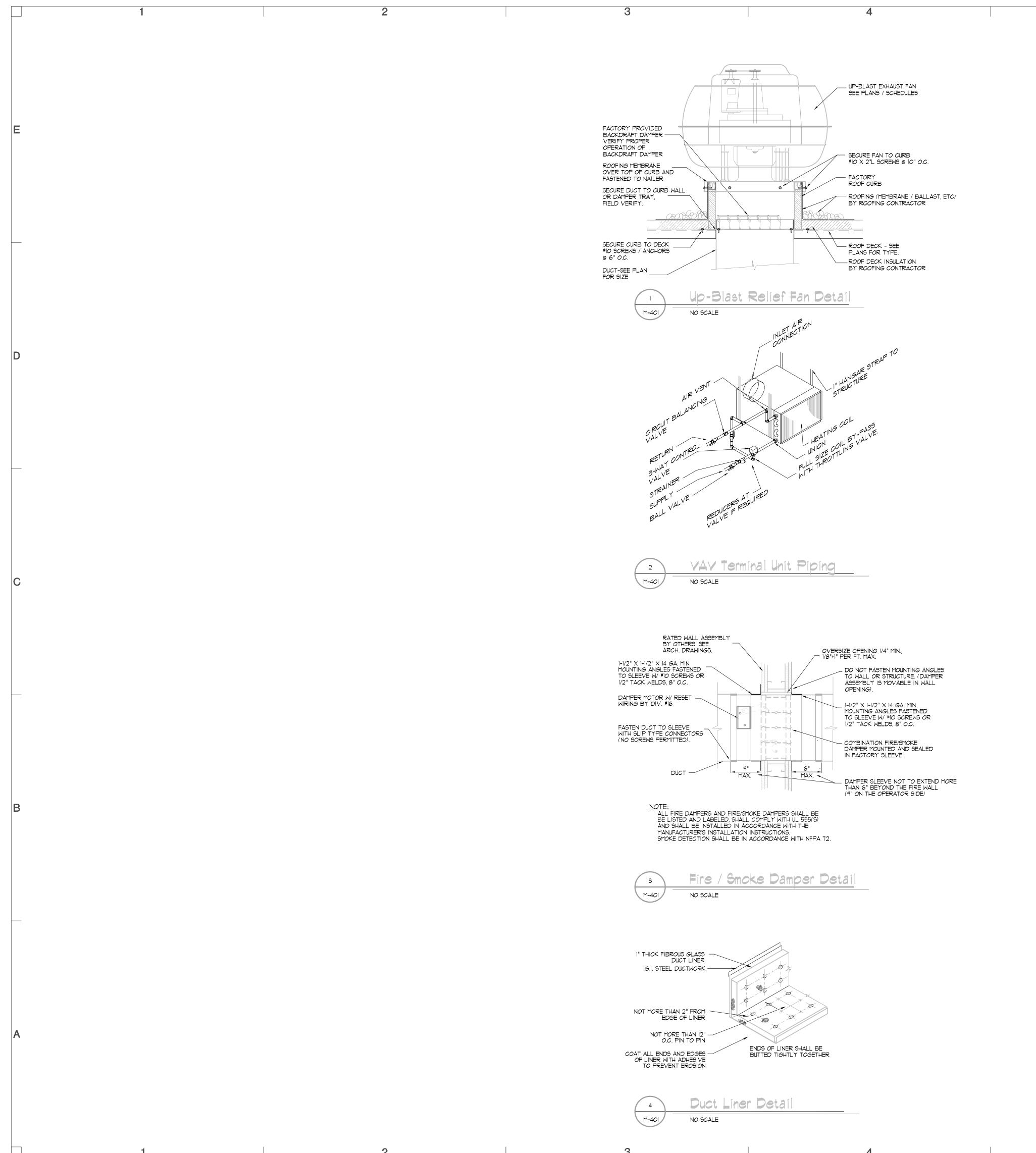
A-60'











Rest Room Exhaust Fan Schedule

EF-I

ROOF MOUNTED, CENTRIFUGAL REST ROOM EXHAUST FAN COMPLETE WITH: ALUMINUM HOUSING, BACKWARD INCLINED ALUMINUM FAN WHEEL, CURB CAP, MOTOR, INTERNAL ISOLATORS, ROOF MOUNTING CURB, ROOF MOUNTING ACCESSORIES. DESCRIPTION:

720 CFM (ADJ) AT 0.65 IN. SP, 1097 FAN RPM. 0.19 BHP. 1/4 HP, 115 y. 1 PH. 1725 MOTOR RPM.

MANUFACTURER: PENN CO. MODEL DX-11B OR APPROVED EQUAL.

		VΔV	TER	PMIN	AL UN	VIT E	CHEDUL	E		
UNIT TAG	BASIS OF DESIGN (1) TRANE CO. MODEL NO.	INLET DIA (IN)	DSGN CLG FLOW (CFM)	MIX CLG FLOX (CFM)	PD @DSGN CLG . (IN.WG)	UNIT HTG FLOW (CFM)		COIL HEAT (MBH)	WATER FLOW (GPM)	COIL WPD (FT)
V-101 V-102 V-103 V-104 V-105 V-106 V-107 V-108 V-109	VCWF-08 VCWF-14 VCWF-14 VCWF-14 VCWF-10 VCWF-08 VCWF-12 VCWF-12	8 8 14 14 14 10 8 12	600 510 2225 2225 2225 860 600 1800 1800	120 110 445 445 445 175 120 360 360	0.29 0.22 0.36 0.36 0.36 0.54 0.29 0.56 0.56	300 255 1115 1115 1115 430 300 900 900		16.94 15.12 66.26 66.26 66.26 21.38 16.94 49.63 49.63	1.I3 1.O1 4.41 4.41 4.41 1.42 1.I3 3.31 3.31	0.12 0.10 0.86 0.86 0.86 0.18 0.12 0.64 0.64

- NOTES: I SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
 - 2 COIL HEAT CAPACITIES FOR VAV UNITS ARE BASED ON 175 DEG. EWT,
 - 55 DEG. EAT, 95 DEG. LAT, APPROX 30 DEG. WTD. ALL COILS SHALL BE HIGH CAP. 3 ALL CAPACITIES SHOWN ARE BASED ON ACTUAL AIR, DERATED FOR ALTITUDE

SYMBOL	BASIS OF DESIGN *	TYPE	SIZE	PATTERN	DESCRIPTION
CD-1	NAILOR IND. 4200 RNSL-24	CEILING DIFFUSER	SEE PLAN	4-WAY	LAY-IN SUPPLY AIR DIFFUSER STANDARD WHITE FINISH
CD-2	NAILOR IND. 6500	CEILING DIFFUSER	SEE PLAN	4-WAY	SURFACE MTD. SUPPLY AIR DIFFUSER STANDARD WHITE FINISH
RG-1	NAILOR IND. 5IECS	CEILING RETURN	24" X 12"		LAY-IN EGG-CRATE TYPE GRILLE STANDARD MILL FINISH
RG-2	NAILOR IND. 5IECS	CEILING RETURN	24" X 24"		LAY-IN EGG-CRATE TYPE GRILLE STANDARD MILL FINISH
CAG-1	NAILOR IND. 5IECS	COMBUST.	12" X 12"		SURFACE MTD. TYPE GRILLE STANDARD MILL FINISH

* APPROVED MANUFACTURERS: TITUS CO.; KRUEGER CO.; NAILOR CO.



College Ogden Weber Applied Technology

ISSUE 06.22.2005 Construction Drawings

Mechanical Schedules and Details

Project #: 05707.00

M - 301

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	MF	ECHAN	NICAL	EG	UIPM	IENT	SCE	EDU	LE				
	NAME OF MECHANICAL EQUIPMENT	EXHAUST FAN	ı	ı				1		ı	ı	-	SYMBOL
	EQUIPMENT NO.	EF-I		<u> </u>								 H	
	RATING/WATTS	I/4 HP										 r	\odot
	VOLTAGE	120										 ľ	•
	PHASE	5.8											J
	AMPS												
۸T۸	WIRE SIZE	2 #12											
MOTOR DATA	GROUND WIRE	l #l2										 	
10TO	CONDUIT SIZE	3/4"										 	
Σ	FUSE DISC. SW.											 	
	TYPE RKI FUSES											 	
	NON-FUSE SW.											 -	
	CAPACITOR (KVAR)											 -	Y'
	NOTES	1										 H	 И.Р.
	<u>) TES:</u> I. PROVIDE A THERMAL OVE		<u> </u>										A
												-	CLG
		L	[GHTI]	NG I	 FIXTUI	RE SO	CHEDI	ULE					 L]
-	SYMBOL DESCRIPTION				LAMPS				CATALOG	NUMBER		-	SYMB <i>O</i> L
(2' X 4' LAY-IN GRID MOL DOOR, PRISMATIC ACRY		RE, FLUSH	STEEL	(3) F32 T8 SP35	METALUX LIGHTOLI DAYBRIT	A 9T824- 2GC8-332 ER XT2GV E 2DPG33 -AI25-332-	2-Al25-27 ⁻ 133277 <i>0</i> 3 2-F92I-27	7-1/3-EB	3277			
(SAME AS T-I, BUT WITH II EMERGENCY BATTERY F		IO MINUTE		(3) F32 T8 SP35	METALUX LIGHTOLI DAYBRIT	A 9T824- 2GC8-332 ER XT2GV E 2DPG33 -AI25-332-	2-AI25-27 ⁻ I33277 <i>0</i> 3 2-F92I-27	1-1/3-EB	3277 BAT	TERY	-	-
(2' X 4' LAY-IN GRID MOU PARABOLIC LENS				(3) F32 T8 SP35	METALUX LIGHTOLII DAYBRITI	2EP3GAX- ER DPS2G	332-9361- 8LP332 <i>0</i> 3 2-F 9 21-27	1-1/3- E B				• • • • • • • • • • • • • • • • • • •
	SAME AS T-2, BUT WITH I	PACK			(3) F32 T8 SP35	METALUX LIGHTOLIE DAYBRITE		332-536 - 8LP332 <i>0</i> 3 2- F5 2 -27	1-1/3- EB		RY	-	
(6" APERATURE, RECESSE TRIPLE TUBE VERTICAL REFLECTOR			NLIGHT,	(I) 32W PLT	PORTFOLI LIGHTOLIE CAPRI CF	10 C6032- ER 8021-C	E-6001-LI CLP-6132E -T042SL	BU .	FA			\$ \$a,b \$3

KRAMER KL6-32PLT-CFF-277

(2) F32 METALUX (EQUAL)

LSI (EQUAL)

(2) F32 METALUX (EQUAL)

(2) F32 METALUX (EQUAL)

| INCLUDED | SURELITES LPX70GWH

| INCLUDED | SURELITES LPX70GWH

INCLUDED SURELITES CU-2

LIGHTOLIER (EQUAL)

DAYBRITE (EQUAL)

LIGHTOLIER (EQUAL)

DAYBRITE (EQUAL)

LIGHTOLIER (EQUAL)

DAYBRITE (EQUAL)
LSI (EQUAL)

LIGHTOLIER LLNUGW

MCPHILBEN CXXL3GW

LIGHTOLIER LLNUGW

MCPHILBEN CXXL3GW

PRESCOLITE EMAX

LIGHTOLIER EII2LT6W

BRANDHURST EL-WH-ELI-DCT5

MCPHILBEN CF6

PRESCOLITE XT-3-G-EN-W

BRANDHURST TP-WH-GN-EM-WH-U

BRANDHURST TP-WH-GN-EM-WH-U

PRESCOLITE XT-3-G-EN-WH

LSI (EQUAL)

COLUMBIA WC4-232-EB82TT-GLR

COLUMBIA WAL4-IUID32-EB8277-GLR

COLUMBIA CS4-232-EBHLHUNV-CSWG4

I. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC BALLAST'S, IO% TOTAL HARMONIC DISTORTION. MOTOROLA AND
MAGNATEK ARE APPROVED MANUFACTURERS. BALLAST'S TO HAVE 5 YEAR WARRANTY.

- 2. ALL FLUORESCENT LAMPS SHALL HAVE COLOR TEMPERATURE TO MATCH EXISTING.
- 3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR PLACING ANY ORDER.

IO" X 48" SURFACE MOUNTED FIXTURE, WITH

WALL MOUNTED VANITY LIGHT FIXTURE,

FLUORESCENT STRIP LIGHT WITH WIREGUARD

SINGLE FACE, LED EXIT SIGN, POLYCARBONATE

HOUSING, WHITE WITH GREEN LETTERS, BATTERY

SURFACE MOUNTED EMERGENCY BUG-LIGHT TYPE

SAME AS EX-I, BUT TO BE TWO FACED

WRAPAROUND ACRYLIC LENS

FLUORESCENT

(EX-2)

EX-3) FIXTURE

3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR PLACING ANY ORDER.4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

POWER SYSTEMS SYMBOL LIST STIBOL DESCRIPTION DISCRIPTION DISCRIPTIO	4	5
DESCRIPTION DURIDO COMMUNIDOS CUILET 20 AMP DURIDO COMMUNIDOS CUILET 20 AMP GROND HALT INTERRIPTER 4 PLEX COMMUNIDOS CUILET 20 AMP GROND HALT INTERRIPTER 4 PLEX COMMUNIDOS CUILET 20 AMP GROND HALT INTERRIPTER 3 SHECAL PRIPOCES SINCE PARAS CUILET 3 SHECAL PRIPOCES SINCE PARAS CUILET 3 HUSSI FLOOR CUILET BOX - HUSSI FLOOR CUILET BOX - HUSSI FLOOR CUILET BOX - CONCUITS CONCEALED IN FLOOR OR BELOW GRACE - CONCUITS CONCEALED IN CHILD AND ARE REQUIRED - PARAS DISCONNECT SINTEN SAZE ARE REQUIRED - PARAS DISCONNECT SINTEN SAZE ARE REQUIRED - PARAS DISCONNECT AND HUBBAN COVER. CADO PROTECTION - PARAS DISCONNECT AND HUBBAN CONTROL - PARAS DISCONNECT AND HUBBAN COVER. CADO PROTECTION - PARAS DISCONNECT AND HUBBAN CONTROL - PARAS DISCONNECT AND HUBBAN CONTROL - PARAS DISCONNECT AND HUBBAN CONTROL - PARAS DISCONNECT AND HUBBAN CON		POWER SYSTEMS SYMBOL LIST
DUPLE CONVENIENCE OUTLET - 20 MP ■ DUPLED CONVENIENCE OUTLET - 20 MP ■ PLEX CONVENIENCE OUTLET - 20 MP GROUND FAULT INTERRUPTER ■ HEAR X CONVENIENCE OUTLET - 20 MP GROUND FAULT INTERRUPTER ■ STOCAL PURPOSE SMALL PLASS CUTTET □ PLUS I ROOK OUTLET BOX ■ PLUS I ROOK OUT BOX OUTLET □ DATE ON BOX - SUZ AND FANDTON AS REQUISED □ CONDUITS CONCEALED IN CHILD ON SAN DIAM IS ■ ANSON INDICATE INCTE SING ■ NON RUBED DISCONNECT SHITCH - SUZ AS REQUISED □ NON RUBED DISCONNECT SHITCH - SUZ AS REQUISED □ PROBED DISCONNECT SHITCH - SUZ AS REQUISED □ NOTICE LOCATION ■ HANKIN DISCONNECT SHITCH - SUZ AS REQUISED □ NOTICE LOCATION ■ HANKIN DISCONNECT SHITCH - SUZ AS REQUISED □ NOROCATES REPORTED ROOF COUNTER TOP □ PROBABILITIES COUNTED ROUTLES □ REPORTED FORTH ELIGIT FIXTURE □ PROBABILITIES COUNTED ROUTLES □ REPORTED FORTHER □ RECOSCED FORTURE □ PROBABILITIES COUNTED ROUTLES □ RECOSCED FORTURE □ PROBABILITIES COUNTED ROUTLES □ SINGLE POLIT TO SUBJECT TO APP ■ SINGLE POLIT TO SUBJECT TO SUBJECT T		
□ CUPLEX CONVENIENCE CUTLET - 20 APP GROWN FAULT INTERSUPTION □ A-FLEX CONVENIENCE CUTLET - 20 APP GROWN FAULT INTERSUPTION □ SPECIAL PRIPAGES BRIGHT FAMASE CUTLET □ FUSIAL FLOOR ROOM FRANCE FOR CUTTURE □ FUSIAL FLOOR ROOM FRANCE FOR CUTTURE □ FUSIAL FLOOR ROOM FRANCE FOR RELICH SPACE □ CONCURS CONCEALED IN FLOOR OR RELICHED □ MORE REPORT OF SEATON SPACE AS REQUIRED □ MORE REPORT OR SPACE AS REQUIRED □ MORE REPORT OR SPACE AS REQUIRED □ MORE REPORT OR REPORT OF SEATON FROM THE PROPERTY OF SEATON FROM		
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## 4-PLD CONVENIENCE CUTLET - 20 APP GROUND FAILT INTERRIPTER ## STECAL TURNINGS SINGLE PLACE CUTLET HUSH HOOR CUTLET BOX		
SECUL PURPOSE SINSLE PAINS CUTLET TUBER LOOK POKET PROSE PROSEN CUTLET JUDICALOR POKET PROSEN CUTLET CONCUTS CONCULED IN FLOOR OR SELON SPADE PROSED DISCONNECT SHATCH - SEZ AS REQUIRED THE PROSEN CONCURS SHATCH - SEZ AS REQUIRED THE PAINL PROSENDED THAT REPEND OVER GAS PROTHSTON PROBABL PROSENDED THAT REPEND OVER GAS PROTHSTON PROBABL PROSENDED THAT REPEND OVER GAS PROTHSTON WHP. INDICATES HERE REPORT PROTHSTON WHP. INDICATES HERE PROVED CONTER TOP CLG INDICATES HERE PROVED CONTER TOP CLG INDICATES CHANGE DEVICE THE PROBABLE PROVED PROTHSTON WHE PROBABLE PROVED PROTHSTON WHE PROBABLE PROVED PROTHSTON WHE PROBABLE PROVED PROTHSTON WHE PROPERS HERE PROVED PROTHSTON WHE PROBABLE PROVED PROTHSTON WHICH PROVED PROTHSTON W		
CI PLUSI PLOOR CATLET DOX ○ PLUSI PLOOR PORCE THROUGH CATLET ○ JUNCTION BOX - SIZE AND PLACTION AS REQUIRED - CONDUTS CONCEALED IN FLOOR OR SELON GRADE - CONDUTS CONCEALED IN CLOR OR SELON GRADE - CONDUTS CONCEALED IN CONTINUED DEVOCE - CONDUTS CONCEALED IN THE PROOF SOURCED PROTECTION - LECTRICAL PAREL LOCATION - MICHES DEVICE IS ABOVE COUNTER TOP - CLG - NOICATES CELLING POINTED DEVOCE - CLUB - NOICESCENT TRITURE - CLG - NOICATES CELLING POINTED - CLG - NOICATES CELLING POINTED - CLG - NOICATES CELLING POINTED - CLUB - NOICESCENT TRITURE - CLG - NOICATES CELLING POINTED - CLG - NOICATES CELLING POINTED - CLUB - PROOF CELLING POINTED - CLUB - PROOF CELLING POINTED - CLUB - PROOF CELLING POINTED - CLUB - NOICESCENT TRITURE - CLUB - NOICESCENT TRITURE - CLUB - PROOF CELLING POINTED - CLUB - NOICESCENT TRITURE - CLUB - PROOF CELLING POINTED - CLUB - NOICESCENT TRITURE - CLUB - PROOF CELLING POINTED - CLUB - PROOF	_	
HIBH FLOOR PORE THROUGH CUITIET □ JUNCTION BOX - 92E AND RINGTION AS REQUIRED □ CONDUITS CONCENTED IN TILOPE OR BELOW SEADE □ CONDUITS CONCENTED IN TILOPE OR BELOW SEADE □ CONDUITS CONCENTED IN TILOPE OR BELOW SEADE □ HON FUSED DESCONDED SHITCH - 92E AS REQUIRED □ HON FUSED DESCONDED SHITCH - 92E AS REQUIRED □ HONOR LOCATION		
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FUERD DISCONECT SWITCH - SIZE AS REQUIRED SZ COTEINATION STARTER/RUSED DISCONNECT SWITCH - SIZE AS REQUIRED (I) POTOR LOCATION IN MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION W.P. INDICATES DEVICE IS ABOVE COUNTER TOP CLG INDICATES DEVICE IS ABOVE COUNTER TOP CLG INDICATES CELLINS PROVIDED DEVICE XX-II PEGLINICAL COUPPENT CALLOUT WEFERBACE NOTE CALLOUT LIGHTING SYSTEMS SYMBOL LIST SYMBOL DESCRIPTION REFERBACE NOTE CALLOUT LIGHTING SYSTEMS SYMBOL LIST SYMBOL DESCRIPTION RECESSED FLUORESCENT FIXTURE SUFFACE MOUNTED FLUORESCENT FIXTURE IN FLUORESCENT STRUE RECESSED FLUORESCENT FIXTURE SUFFACE MOUNTED HALL WASHER FIXTURE WALL MOUNTED FIXTURE WALL MOUNTED FIXTURE WALL SCONCE FORTURE WALL SONCE FORTURE PENDANT MOUNTED HALL WASHER FIXTURE SUFFACE MOUNTED FIXTURE WALL MOUNTED LIGHT FIXTURE PENDANT MOUNTED HALL WASHER FIXTURE WALL MOUNTED CAS LIGHT FIXTURE PENDANT MOUNTED CAS LIGHT FIXTURE SINGLE POLE TOOGGLE SWITCH - 20 APP SINGLE POLE TOOGGLE SW		ARROWS INDICATE HOME RUNS
SCP COMMATION STARTER/RISED DISCONNECT SMITCH - SIZE AS REQUIRED (3) HOTCR LOCATION \$\frac{1}{2}\$ HANDLA DISCONNECT WITH THEMPIAL OVERLOAD PROTECTION 2222 ELECTRICAL PAREL LOCATION A INDICATES MEATHER PROOF EQUIPMENT CLG INDICATES MEATHER PROOF EQUIPMENT A INDICATES MEATHER PROOF EQUIPMENT CLG INDICATES MEATHER PROOF EQUIPMENT CLG INDICATES MEATHER PROOF EQUIPMENT CLG HONGAL EQUIPMENT CALLOUT **** *****************************	<u> </u>	NON FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
POTOR LOCATION		FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
## HANJAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION Page		COMBINATION STARTER/FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
ELECTRICAL PANEL LOCATION ALP. INDICATES CELLING MOINTED DEVICE A INDICATES CELLING MOINTED DEVICE CLG INDICATES CELLING MOINTED PLUCATES SYMBOL LIST SYMBOL MALL MOINTED LIST SYMBOL CALL MASHER FIXTURE CLG HALL MOINTED CAN LIST FIXTURE CLG HALL MOINTED CAN LIST FIXTURE SHERGBACY BATTERY OPERATED LIST-SINGLE OR TAIN BEAT SYMBOL POLE TOGGLE SHITCH - 20 APP SOLD FOLE TOGGLE SHITCH - 20 APP SOL	⑤	MOTOR LOCATION
M.P. INDICATES PEATER PROCE EQUIPMENT A INDICATES CENTING MOUNTED DEVICE XXI PECHANICAL EQUIPMENT CALLOUT REFERENCE NOTE CALLOUT LIGHTING SYSTEMS SYMBOL LIST SYMBOL DESCRIPTION SUPPLACE POLITIONS SYMBOL LIST SYMBOL DESCRIPTION PECESSED FLUORESCENT FIXTURE INDICATES CENTING PROPERSON FIXTURE INDICATES POLITION FIXTURE RECESSED FAULUS ASHER FIXTURE INDICATES POLITION PALL MASHER FIXTURE SURFACE POUNTED HALL MASHER FIXTURE INDICATES POLITION FIXTURE SINGLE POLE TOOGLE SWITCH - 20 APP SONGLE POLITION TO THE POLITION TO	\$т	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
A INDICATES DEVICE IS ABOVE COUNTER TOP CLG INDICATES CEILING MOUNTED DEVICE XX-1 HECHANICAL EQUIPMENT CALLOUT REFERENCE NOTE CALLOUT LIGHTING SYSTEMS SYMBOL LIST STIBOL DESCRIPTION SCESSED FLUORESCENT TRITURE STREAM FLUORESCENT STRIP LIGHT FIXTURE RECESSED FLUORESCENT FIXTURE RECESSED FLUORESCENT FIXTURE RECESSED FLUORESCENT FIXTURE RECESSED FLUORES HALL MASHER FIXTURE RECESSED FLUORED HALL MASHER FIXTURE ALL MOINTED FIXTURE SURFACE MOUNTED FIXTURE ALL MOINTED FIXTURE SURFACE MOUNTED FIXTURE PERSONAL MOUNTED FIXTURE E FIXTURES ON BERGENCY FOWER EXIT LIGHT, ARROWS SHOW EXIT DIRECTION ALL MOUNTED CAN LIGHT FIXTURE SINGLE POLE TOOGLE SHITCH - 20 APP SUNGLE CONTROL DIMER THERE ALL ARM SYSTEM SYMBOL LIST STITEDL DESCRIPTION SUDE CONTROL DIMER SYMBOL LIST STITEDL DESCRIPTION SUDE SCRIPTION SUDE S		ELECTRICAL PANEL LOCATION
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H) FIRE ALARM HORN WITH STROBE HIGH DECIBEL	F	FIRE ALARM MANUAL PULL STATION
	H)}	FIRE ALARM HORN WITH STROBE HIGH DECIBEL
<u>.</u>		

A.D.A. STROBE FOR FIRE ALARM

FIRE ALARM REMOTE ANNUNCIATOR PANEL

COMMUNICATION SYSTEMS SYMBOL LIST

FIRE ALARM CONTROL PANEL

DESCRIPTION

FLUSH TELEPHONE OUTLET

FLUSH TELE/DATA OUTLET

FLUSH DATA OUTLET

CLOCK OUTLET

SPEAKER OUTLET

TELEPHONE TERMINAL BOARD

F.A.C.P.

SYMBOL

GENERAL NOTES:

EXISTING WALLS AND CEILINGS.

- ① IN THE EXISTING SPACES TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, CONDUIT, WIRING DEVICES, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS.
- (2) ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
- 3 ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
- (4) IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
- (5) THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE
- (6) THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL MATCH THE COLOR OF THE EXISTING DEVICES AND COVERPLATES.
- 7) REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
- 9 MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
- 10 USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
- (1) SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
- 12) REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
- (3) ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
- (4) NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A CONDUIT. EACH CIRCUIT SHALL CONSIST OF I CONDUCTOR FOR EACH PHASE, I NEUTRAL, AND I GROUND, FOR A TOTAL OF FIVE CONDUCTORS.
- (5) THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
- (16) THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS
- ① ALL PANELBOARDS SHALL HAVE FULL SIZE ISOLATED NEUTRAL AND GROUND COPPER BUSSBARS.
- (8) DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
- (9) ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
- ② ALL CONDUITS EXPOSED TO THE WEATHER SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED.

 ② ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM
- THE CEILINGS.

 2 ALL THE HOMERUNS MUST BE ACCESSIBLE IN THE CEILING PLENUM. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES

AND NUMBERS. USE NO. 10 THHN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THHN OVER 200 FEET,

- ② PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. MARK ALL THE CONDUIT FOR FIRE ALARM SYSTEM EVERY 8' WITH RED STRIPE.
- ② COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.

NO. 6 THHN OVER 300 FEET AND NO. 4 THHN OVER 400 FEET LENGTH.

- 25 LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.

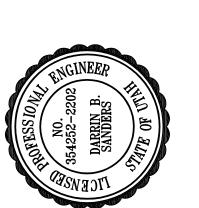
 26 AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- ② SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
- ALL DISCONNECTS, J-BOXES AND CONDUITS EXPOSED TO THE OUTSIDE WEATHER SHALL BE NON-CORROSIVE, WEATHER
- 29 ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
- 30 ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
- (3) ALL WIRING MUST BE IN CONDUIT. BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILING SPACES MAY BE RAN IN MC CABLE. HOME-RUNS AND EXPOSED WIRING SHALL BE RAN IN CONDUIT. (ROMEX IS NOT PERMITTED).
- 32 FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
- 33 NO CONDUITS SHALL RUN IN DUCT WORK.
- (34) PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF I YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
- THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
- (36) ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP., I20 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
- (3) ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.)
- OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS. REFER TO BEGINNING ROUGH-IN.

 (39) THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF TEN (IO) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF TEN
- (4) PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED
- 4) INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.

(IO) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.

- 42 CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
 43 SWITCHBOARDS, PANELBOARDS, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. (NEC 110-16)
- 49 TO MINIMIZE NUMBER OF FALSE FIRE ALARM DURING CONSTRUCTION, THE CONTRACTOR SHALL CAP SMOKE DETECTORS IN AREAS ADJACENT TO WORK SITE WHILE DUST-GENERATING WORK IS PERFORMED. THESE CAPS SHALL BE REMOVED AT END OF WORKDAY. COORDINATE THE EXTENT OF DEUCE CAPPING REQUIRED WITH CAMPUS FIRE MARSHALL.
- (4) IF, FOR ANY REASON FIRE ALARM SYSTEM CANNOT BE RETURNED TO SERVICE AT THE END OF WORK DAY THE FIRE MARSHALL MUST BE NOTIFIED. CONTRACTOR SHALL PROVIDE FIRE WATCH AT NO ADDITIONAL COST TO THE OWNER.

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BDO PHASE III

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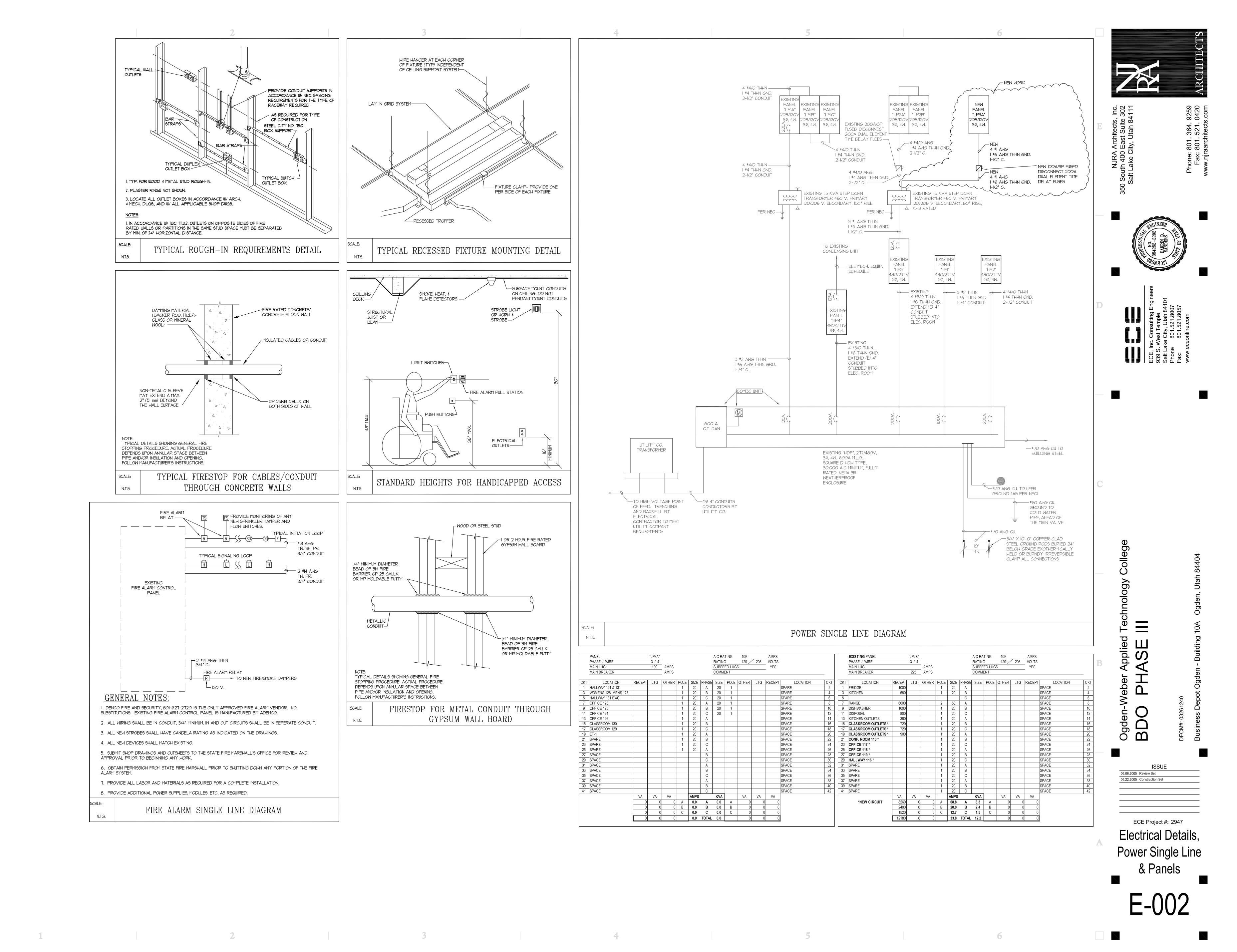
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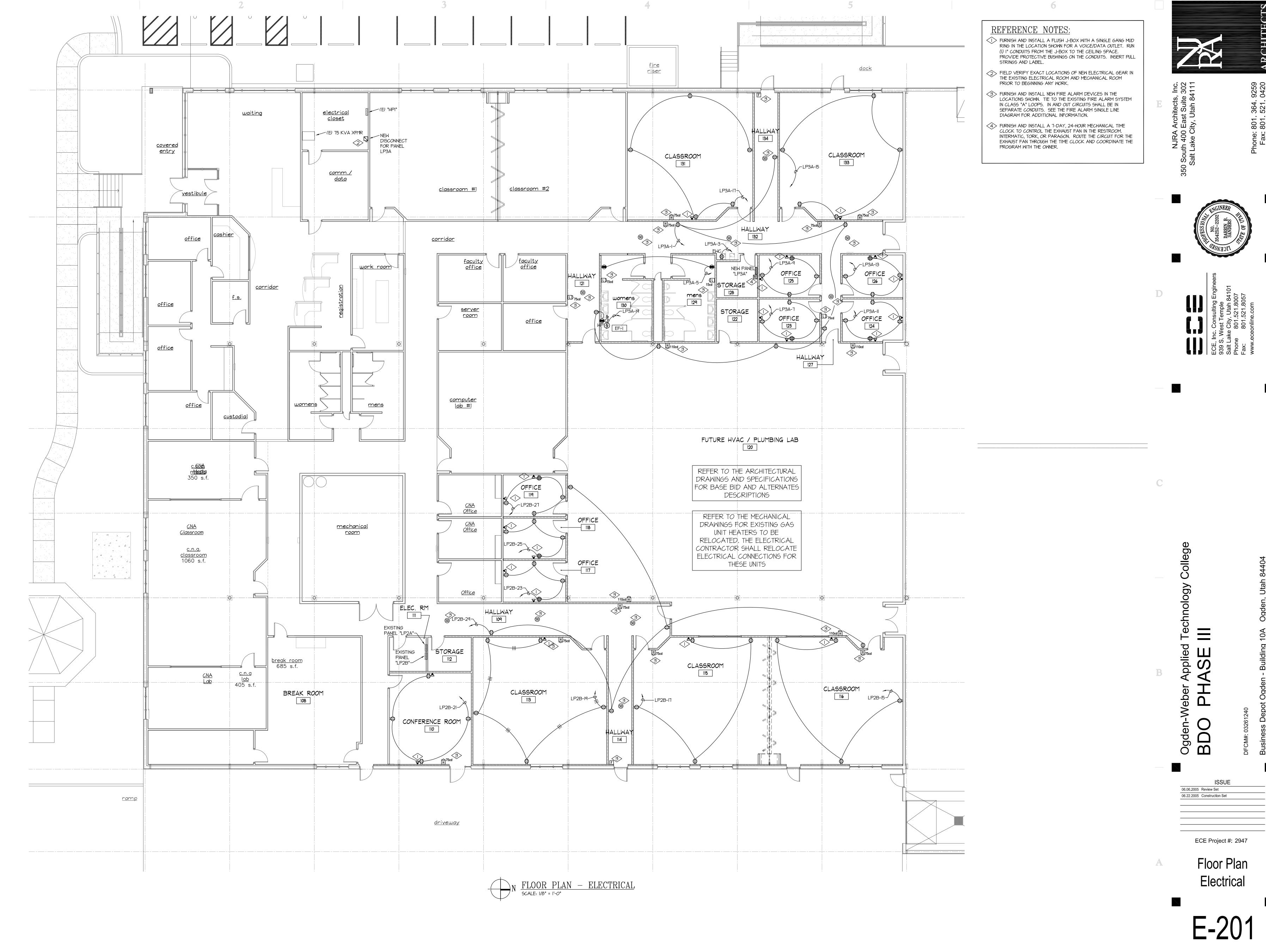
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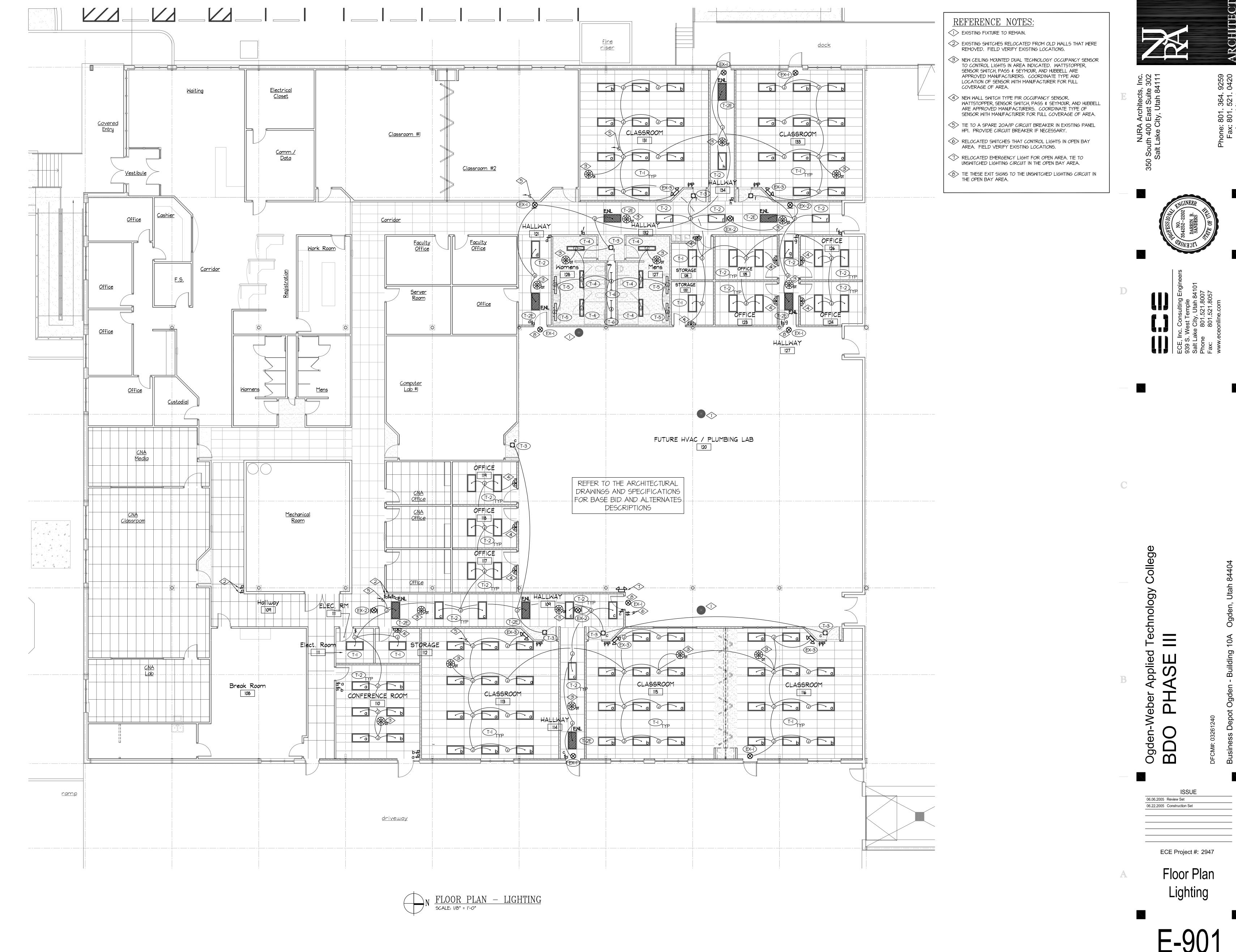
ECE Project #: 2947

General Notes and Schedules

E-001







E-901